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November 24, 1998

Box Patent Application

Assistant Commissioner for Patents
Washington, D.C. 20231

Re: U.S. Non-Provisional Patent Application
Appl. No.: To Be Assigned
Filed: November 24, 1998
For: **NUCLEIC ACID MOLECULES AND OTHER MOLECULES
ASSOCIATED WITH THE METHIONINE SYNTHESIS AND
DEGRADATION PATHWAYS**
Inventor(s): Stefan A. Bledig *et al.*
Our Ref: 04983.0002US01/38-21 (15077)B

Sir:

The following documents are being submitted under 37 C.F.R. § 1.53(b)(2) herewith for appropriate action by the U.S. Patent and Trademark Office:

1. Patent Application Utility Application;
2. Utility Patent Application Transmittal (PTO/SB/05);
3. Form PTO-1082 (in duplicate);
4. U.S. Utility Patent Application entitled

**Nucleic Acid Molecules And Other Molecules Associated With The
Methionine Synthesis And Degradation Pathways**

and naming as inventor(s):

**Stefan A. Bledig, Joseph R. Byrum, Gregory J. Hinkle and JingDong
Liu**

the application consisting of:

- (i) 288 pages of description prior to the claims;
- (ii) 5 pages of claims (11 claims);
- (iii) a one (1) page abstract;
- (iv) sequence listing of 1127 pages;

- 5. Sequence Listing Disk;
- 6. Statement Regarding Sequence Submissions;
- 7. Information Disclosure Statement;
- 8. Form PTO-1449 (9 pages) with 30 accompanying documents; and
- 9. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and returned as soon as possible.

The present application claims priority under 35 U.S.C § 119(e) to provisional applications No. 60/067000 filed November 24, 1997, No. 60/066,873 filed November 25, 1997, No. 60/069472 filed December 09, 1997, No. 60/074,201 filed February 10, 1998, No. 60/074282 filed February 10, 1998, No. 60/074280 filed February 10, 1998, No. 60/074281 filed February 10, 1998, No. 60/074566 filed February 12, 1998, No. 60/074567 filed February 12, 1998, No. 60/074565 filed February 12, 1998, No. 60/075462 filed February 19, 1998, No. 60/074789 filed February 19, 1998, No. 60/075459 filed February 19, 1998, No. 60/075461 filed February 19, 1998, No. 60/075464 filed February 19, 1998, No. 60/075460 filed February 19, 1998, No. 60/075463 filed February 19, 1998, No. 60/077231 filed March 09, 1998, No. 60/077229 filed March 09, 1998, No. 60/077230 filed March 09, 1998, No. 60/078031 filed March 16, 1998, No. 60/078368 filed March 18, 1998, No. 60/080844 filed April 07, 1998, No. 60/083067 filed April 27, 1998, "Nucleic Acid Molecules and Other Molecules Associated with Plants" docket No. 38-21(15348)A filed April 29, 1998, No. 60/083387 filed April 29, 1998, No. 60/083388 filed April 29, 1998, No. 60/083389 filed April 29, 1998, "Nucleic Acid Molecules and Other Molecules Associated with the Ethylene Biosynthetic Pathway" docket No. 04983.0018/38-21(15097)A filed May 08, 1998, No. 60/085,245 filed May 13, 1998, No.

60/085224 filed May 13, 1998, No. 60/085223 filed May 13, 1998, No. 60/085222 filed May 13, 1998, No. 60/086186 filed May 21, 1998, No. 60/086,339 filed May 21, 1998, No. 60/086187 filed May 21, 1998, No. 60/086185 filed May 21, 1998, No. 60/086184 filed May 21, 1998, No. 60/086183 filed May 21, 1998, No. 60/086188 filed May 21, 1998, No. 60/089,524 filed June 16, 1998, No. 60/089,810 filed June 18, 1998, No. 60/089,814 filed June 18, 1998, "Nucleic acid molecules and other molecules associated with the Plant Sugar and Nitrogen Transporters Pathway" docket No. 04983.0043/38-21(15412)A filed June 30, 1998, No. 60/092,036 filed July 08, 1998, No. 60/099667 filed September 09, 1998, No. 60/099668 filed September 09, 1998, No. 60/099670 filed September 09, 1998, No. 60/099697 filed September 09, 1998, No. 60/100674 filed September 16, 1998, No. 60/100673 filed September 16, 1998, No. 60/100672 filed September 16, 1998, No. 60/101132 filed September 21, 1998, No. 60/101130 filed September 21, 1998, "Nucleic acid molecules and other molecules associated with Plants" docket No. 38-21(15459)A filed September 21, 1998, No. 60/101344 filed September 22, 1998, No. 60/101347 filed September 22, 1998, No. 60/101343 filed September 22, 1998, No. 60/104,126 filed October 13, 1998, No. 60/104,128 filed October 13, 1998, No. 60/104,127 filed October 13, 1998, No. 60/104,124 filed October 13, 1998, "Nucleic Acid Molecules and Other Molecules Associated with Plants" docket No. 38-21(15445)A filed November 18, 1998 and "Nucleic Acid Molecules and other Molecules associated with Plants" docket No. 38-21(15592) filed November 18, 1998 hereby incorporated by reference herein in their entirety.

This application is being filed under 37 C.F.R. § 1.53(b) without Declaration and without filing fee.

Respectfully submitted,

David R. Marsh

David R. Marsh (Reg. No.41,408)

Kevin W. McCabe (Reg. No.41,182)

Enclosures

Please type a plus sign (+) inside this box → ☐

UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(h))</i>	Attorney Docket No.	04983.0002US01/38-21(15077)B
	First Named Inventor or Application Identifier	Stefan A. Bledig
	Title	Nucleic Acid Molecules and Other Molecules Associated with the Methionine Synthesis and Degradation Pathways
	Express Mail Label No.	

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents</i>	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
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- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> *Fee Transmittal Form (Form PTO-1082)
<i>(Submit an original and a duplicate for fee processing)</i> | 6. <input type="checkbox"/> Microfiche Computer Program <i>(Appendix)</i> |
| 2. <input checked="" type="checkbox"/> Specification <i>(preferred arrangement set forth below)</i>
- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claims
- Abstract of the Disclosure
[Total Pages 294] | 7. Nucleotide and/or Amino Acid Sequence Submission
<i>(if applicable, all necessary)</i>
a. <input checked="" type="checkbox"/> Computer Readable Copy
b. <input checked="" type="checkbox"/> Paper Copy (identical to computer copy)
c. <input checked="" type="checkbox"/> Statement verifying identity of above copies |

- | | |
|---|--|
| 3. <input type="checkbox"/> Drawing(s) <i>(35 USC 113)</i>
[Total Sheets] | 4. <input type="checkbox"/> Oath or Declaration <i>(Total Pages)</i>
<input type="checkbox"/> Newly executed (original or copy)
<input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))
<i>(for continuation/divisional with Box 17 completed)</i>
<i>[Note Box 5 below]</i>
i. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u>
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). |
|---|--|

5. ☐ Incorporation By Reference *(useable if Box 4b is checked)*
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

- | | |
|---|--|
| ACCOMPANYING APPLICATION PARTS | |
| 8. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) | |
| 9. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney
<i>(when there is an assignee)</i> | |
| 10. <input type="checkbox"/> English Translation Document <i>(if applicable)</i> | |
| 11. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 | <input checked="" type="checkbox"/> Copies of IDS Citations |
| 12. <input type="checkbox"/> Preliminary Amendment | |
| 13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Two)
<i>(should be specifically itemized)</i> | |
| 14. <input type="checkbox"/> *Small Entity Statement(s) | <input type="checkbox"/> Statement filed in prior application, Status still proper and desired |
| 15. <input type="checkbox"/> Certified Copy of Priority Document(s)
<i>(if foreign priority is claimed)</i> | |
| 16. <input type="checkbox"/> Other: | |

*NOTE FOR ITEMS 1 & 14: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

17. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:

- | | | | |
|--|-------------------------------------|---|----------------------------|
| <input type="checkbox"/> Continuation | <input type="checkbox"/> Divisional | <input type="checkbox"/> Continuation-in-part (CIP) | of prior application No: / |
| Prior Application Information: Examiner: | | | Group/Art Unit: |

18. CORRESPONDENCE ADDRESS

- ☐ Customer Number or Bar Code Label or ☒ Correspondence address below
(Insert Customer No. or Attach bar code label here)

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Name (Print/Type)	DAVID R. MARSH		Registration No. (Attorney/Agent)	41,408	
Signature	David R. Marsh		Date	Nov 24, 98	

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Attorney Docket No. 04983.0002US01/38-21 (15077)B

ASSISTANT COMMISSIONER FOR PATENTS
 Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the patent application of
 Inventors: Stefan A. Bledig *et al.*

For: **Nucleic Acid Molecules and Other Molecules Associated with the Methionine Synthesis and Degradation Pathways**

The filing fee has been calculated as shown below:

(Col. 1)		(Col. 2)	SMALL ENTITY		OR	OTHER THAN A SMALL ENTITY	
FOR	NO. FILED	NO. EXTRA	RATE	FEE		RATE	FEE
BASIC FEE				\$ 380.00	OR		\$ 760.00
TOTAL CLAIMS	-20 =	*	x 9 =		OR	x 18 =	
INDEP. CLAIMS	-3 =	*	x 39 =		OR	x 78 =	
MULTIPLE DEPENDENT CLAIM PRESENTED			+ 130 =		OR	+ 260 =	
			TOTAL		OR	TOTAL	

If the difference in Col. 1 is less than zero, enter "0" in Col. 2

Please charge my Deposit Account No. 08-3038 in the amount of \$_____. A duplicate copy of this sheet is attached.

A check in the amount of \$_____ to cover the _____ fee is enclosed.

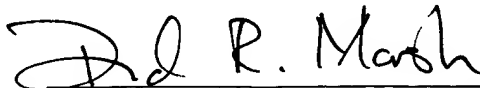
The U.S. Patent and Trademark Office is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 08-3038. A duplicate copy of this sheet is attached.

- ☒ Any additional filing fees required under 37 CFR 1.16.
☒ Any patent application processing fees under 37 CFR 1.17.

The U.S. Patent and Trademark Office is hereby authorized to charge payment of the following fees during the pendency of this application or credit any overpayment to Deposit Account No. 08-3038. A duplicate copy of this sheet is enclosed.

- Any patent application processing fees under 37 CFR 1.17
 — The issue fee set in 37 CFR 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR 1.311(b).
 — Any filing fees under 37 CFR 1.16 for presentation of extra claims.

Date November 24, 1998



David R. Marsh (Reg. No. 41,408)
 Kevin W. McCabe (Reg. No. 41,182)